

### LITTLE COLORADO RIVER BASIN

#### 09390500 SHOW LOW CREEK NEAR LAKESIDE, AZ

**LOCATION**--Lat 34°10'46", long 109°59'14", in SW<sub>1/4</sub>NW<sub>1/4</sub> sec. 14, T.9 N., R.22 E., Navajo County, Hydrologic Unit 15020005, on left bank 1 mi upstream from pumping plant on Show Low Lake, 1.9 mi northwest of Lakeside, 2.2 mi upstream from Jacques Dam, and 6 mi southeast of Show Low.

**DRAINAGE AREA**--68.6 mi<sup>2</sup>.

**PERIOD OF RECORD**--May 1953 to current year.

**REVISED RECORDS**--WSP 1513: 1954-56. WSP 1926: Drainage area. WDR AZ-71-1: 1970(M).

**GAGE**--Water-stage recorder and concrete-dam control with V-notch sharp-crested weir. Elevation of gage is 6,610 ft above sea level, from topographic map.

**REMARKS**--Records fair except for estimated daily discharges, which are poor. Record shows inflow to Show Low Lake. Flow partly regulated by several small reservoirs, largest of which are Rainbow Lake and Scott Reservoir, combined capacity, 2,400 acre-ft. Diversions for irrigation of about 250 acres above station.

**EXTREMES FOR PERIOD OF RECORD**--Maximum discharge, 5,550 ft<sup>3</sup>/s Dec. 18, 1978, gage height, 9.16 ft, from rating curve extended above 2,500 ft<sup>3</sup>/s; maximum gage height, 9.53 ft Dec. 26, 1971; no flow Oct. 5, 6, Dec. 10-19, 1964, Jan. 4-15, 1970.

**EXTREMES FOR CURRENT YEAR**--Peak discharges greater than base discharge of 100 ft<sup>3</sup>/s and (or) maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
	Mar. 13 .....	unknown	*169	*3.36a

Minimum daily discharge, 0.02 ft<sup>3</sup>/s, Oct. 28 to Nov. 3.

a-from floodmark

#### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	0.02	0.34	0.46	0.44	2.1	0.67	0.73	0.31	0.37	4.0	3.8
2	2.2	0.02	0.33	0.44	0.42	2.1	0.61	0.62	0.53	0.45	4.0	4.0
3	2.2	0.02	0.29	0.41	0.43	2.0	0.84	0.61	0.80	0.47	3.9	4.1
4	2.1	0.03	0.28	0.43	0.44	2.4	0.81	0.66	0.37	0.46	3.9	7.0
5	1.5	0.04	0.27	0.46	0.52	4.3	0.72	0.88	0.30	0.45	4.2	4.7
6	1.6	0.04	0.28	0.44	0.49	3.4	0.68	0.87	0.85	0.52	4.4	4.8
7	2.3	0.04	0.31	0.36	0.46	5.3	0.59	0.76	0.75	0.72	4.1	4.9
8	2.9	0.05	0.29	0.35	0.46	9.0	0.51	0.89	0.53	0.64	4.1	4.9
9	1.3	0.05	0.30	0.33	0.44	9.8	0.46	0.71	0.86	0.60	4.1	4.6
10	1.2	0.05	0.31	0.33	0.44	5.9	1.6	0.51	0.78	0.71	4.0	4.8
11	1.1	0.06	0.28	0.34	0.42	3.9	2.2	0.35	0.84	0.69	3.9	5.1
12	0.74	0.42	0.32	0.34	0.42	2.9	1.4	0.29	e0.80	0.64	3.7	5.1
13	0.43	3.2	0.36	0.36	0.40	e37	1.2	0.28	e0.60	0.71	3.8	4.6
14	0.30	0.69	0.34	0.35	0.39	e8.6	0.97	0.18	e0.50	2.5	4.1	4.4
15	0.20	0.42	0.34	0.37	0.40	e4.5	0.60	0.14	e0.50	4.2	4.6	4.5
16	0.17	0.21	0.26	0.46	0.41	3.7	0.61	0.15	e0.30	4.3	4.6	4.6
17	0.11	0.19	0.24	0.41	0.41	4.1	0.67	0.15	e0.30	4.2	4.2	4.7
18	0.09	0.16	0.24	0.40	0.43	4.8	0.80	0.15	e0.30	4.2	3.9	4.7
19	0.10	0.15	0.27	0.40	0.46	4.6	0.81	0.17	0.22	4.2	3.7	5.3
20	0.07	0.22	0.28	0.40	0.50	3.7	0.62	0.23	0.18	4.1	3.6	4.4
21	0.06	0.31	0.30	0.46	0.47	3.3	0.58	0.23	0.38	4.2	3.7	3.8
22	0.05	0.36	0.28	0.58	0.46	3.1	0.52	0.20	0.42	4.1	3.9	3.6
23	0.06	0.34	0.26	0.56	0.47	2.6	0.52	0.20	0.50	4.2	3.8	3.8
24	0.11	0.14	0.27	0.55	0.63	2.2	0.58	0.17	0.44	4.2	3.7	4.0
25	0.07	0.25	0.30	0.55	0.55	1.8	0.74	0.18	0.37	4.0	3.5	4.0
26	0.05	0.38	0.30	0.57	0.52	1.4	1.2	0.20	0.41	3.9	3.3	4.3
27	0.03	0.35	0.36	0.49	0.81	1.1	0.68	0.22	0.46	4.0	3.2	3.9
28	0.02	0.33	0.29	0.48	2.5	0.99	0.58	0.20	0.45	4.2	3.2	4.0
29	0.02	0.33	0.25	0.47	2.1	0.90	0.51	0.18	0.42	4.0	3.2	5.2
30	0.02	0.35	0.34	0.45	---	0.78	0.66	0.17	0.49	3.9	3.6	3.6
31	0.02	---	0.42	0.43	---	0.74	---	0.20	---	3.9	3.7	---
TOTAL	23.12	9.22	9.30	13.43	17.29	143.01	23.94	11.48	14.96	79.73	119.6	135.2
MEAN	0.75	0.31	0.30	0.43	0.60	4.61	0.80	0.37	0.50	2.57	3.86	4.51
MAX	2.9	3.2	0.42	0.58	2.5	37	2.2	0.89	0.86	4.3	4.6	7.0
MIN	0.02	0.02	0.24	0.33	0.39	0.74	0.46	0.14	0.18	0.37	3.2	3.6
AC-FT	46	18	18	27	34	284	47	23	30	158	237	268

#### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1954 - 2004, BY WATER YEAR (WY)

MEAN	5.62	5.21	20.1	12.7	29.0	42.3	18.2	7.06	5.87	5.50	5.39	4.51
MAX (WY)	57.4	54.3	285	200	225	189	197	72.0	13.2	10.8	20.1	18.5
MIN (WY)	0.58	0.20	0.20	0.10	0.19	0.63	0.80	0.37	0.50	1.07	1.17	0.59
	2003	2002	1965	1971	1964	2000	2004	2004	2004	1996	2001	2000

#### SUMMARY STATISTICS FOR 2003 CALENDAR YEAR FOR 2004 WATER YEAR WATER YEARS 1954 - 2004

ANNUAL TOTAL	1807.24	600.28										
ANNUAL MEAN	4.95	1.64										
HIGHEST ANNUAL MEAN												
LOWEST ANNUAL MEAN												
HIGHEST DAILY MEAN	115	Mar 17	37	Mar 13	3520	Dec 18	1978					
LOWEST DAILY MEAN	0.02	Oct 28	0.02	Oct 28	0.00	Feb 14	1954					
ANNUAL SEVEN-DAY MINIMUM	0.02	Oct 28	0.02	Oct 28	0.00	Dec 10	1964					
ANNUAL RUNOFF (AC-FT)	3580		1190		9700							
10 PERCENT EXCEEDS	8.0		4.2		19							
50 PERCENT EXCEEDS	1.3		0.54		4.1							
90 PERCENT EXCEEDS	0.22		0.17		0.63							

e Estimated